



# **Neighborhood Infrastructure Bond Project Recommendations**

Council Retreat– February 10, 2022



**Roads, Streets and Bridges (RSB)**

# [ Roads, Streets and Bridges Projects ]

- Category Description: Investments in road/street resurfacing, intersection/traffic improvements, bridge replacement and new construction projects

| Project Category   | Description                        | Cost Estimate       | Timeline |
|--------------------|------------------------------------|---------------------|----------|
| Resurfacing        | Citywide Street resurfacing        | \$6,000,000         | Q2 2022  |
| Road Improvements  | Citywide Concrete Medians          | \$500,000           | Q3 2022  |
| Road Improvements  | Citywide Restriping                | \$500,000           | Q3 2022  |
| Road Improvements  | Mohawk Streetscape                 | \$900,000           | Q2 2023  |
| Bridge Replacement | Dallas Road Bridge                 | \$600,000           | Q2 2023  |
| Bridge Replacement | Williard Street Bridge             | \$800,000           | Q4 2023  |
| Road Improvements  | Pendleton/Vardry/Main Intersection | \$400,000           | Q3 2023  |
| Road Improvements  | W. Antrim Road Diet                | \$450,000           | Q1 2023  |
| Road Improvements  | PHB Signals                        | \$900,000           | Q4 2022  |
|                    |                                    | <b>\$11,050,000</b> |          |

# [ Street Resurfacing (City-wide)]

- Project Description: City will invest in the pavement management program including resurfacing, reclamation, and pavement preservation projects. Approximately 15-20 centerline miles within the City will be addressed.
- Identification Source: 2021 PCI Scores
- Estimated Cost: \$6,000,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2022
- Prioritized Street list and seven-year paving plan will be presented to Council in April/May 2022.



\*\*Average PCI score for City streets in 2021 is 68. This is ten points lower than it was in 2017 (78).

# [ Concrete Medians (City-wide) ]

- Project Description: Install concrete medians at key intersections and roadways within the City limits to promote safety.
- Identification Source: 2015 Intersection Safety Study
- Estimated Cost: \$500,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q3 2022





# [ Street Restriping (City-wide) ]

- Project Description: Restriping on various roadways throughout the City limits
- Estimated Cost: \$500,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q3 2022



# [ Mohawk Streetscape Project ]

- Project Description: Streetscape at Mohawk/Wade Hampton including sidewalks, lighting, and landscaping.
- Identification Source: Wade Hampton Strategic Plan
- Estimated Cost: \$900,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2023



# [ Dallas Road Bridge Replacement ]

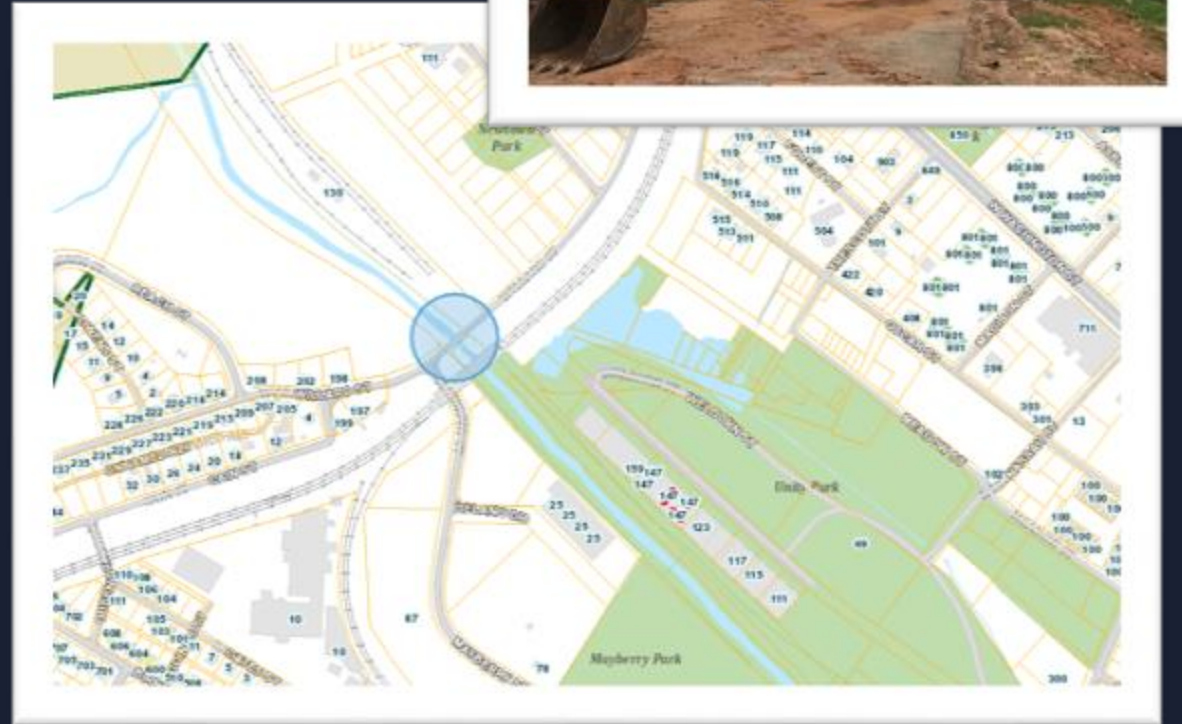
- Project Description: Bridge replacement project and repaving of Dallas Road
- Identification Source: Pavement Management Program & Bridge Assessments
- Estimated Cost: \$600,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2023





# [ Willard Street Bridge Replacement ]

- Project Description: Replace the bridge on Willard Street and explore the feasibility of relocating the trail crossing under the bridge.
- Identification Source: Bridge Assessments
- Estimated Cost: \$800,000
- ROW Needed (Y/N)?: Yes
- Estimated Timeline to Begin Construction: Q4 2023



# [ Pendleton/Vardry/S. Main Intersection Improvements ]

- Project Description: Enhance pedestrian safety at the intersection of Pendleton/Vardry/S. Main Street
- Identification Source: Project Request
- Estimated Cost: \$400,000
- ROW Needed (Y/N)? : Yes
- Estimated Timeline to Begin Construction: Q3 2023



# [ W. Antrim Road Diet ]

- Project Description: Remove one lane of travel and install a sidewalk with a curb lawn along the west side of W. Antrim between Laurens Road and Greenacre.
- Identification Source: Project Request
- Estimated Cost: \$450,000 (Includes \$200k for irrigation/landscaping/lighting)
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q1 2023





# [PHB Signal Installation]

- Project Description: Pedestrian Hybrid Signal Installations at E.North near Chestnut Street, Stone Avenue near Wilton, and Augusta Street near Field Street.
- Identification Source: Project Request
- Estimated Cost: \$900,000 (\$300,000 each location)
- ROW Needed (Y/N)?: Yes
- Estimated Timeline to Begin Construction: Q4 2022







# **Traffic Management Projects**

# [ Traffic Management Projects ]

- Category Description: Investments in equipment and technology to better manage traffic throughout the City

| Project Category | Description                  | Cost Estimate      | Timeline |
|------------------|------------------------------|--------------------|----------|
| Equipment        | Traffic Count Stations       | \$250,000          | Q3 2022  |
| Equipment        | Video Monitoring Cameras     | \$200,000          | Q2 2022  |
| Technology       | Travel Time Monitoring       | \$500,000          | Q2 2022  |
| Equipment        | Signal Detection             | \$200,000          | Q2 2022  |
| Plan/Design      | ITS Master Plan              | \$150,000          | Q4 2022  |
| Technology       | Emergency Signal Preemption  | \$1,200,000        | Q3 2022  |
| Equipment        | Uninterruptible Power Supply | \$1,500,000        | Q2 2022  |
| <b>Total</b>     |                              | <b>\$4,000,000</b> |          |

# [ Citywide Traffic Count Stations ]

- Project Description: Permanent counters for 2 lane residential collectors, 2 mobile units for static collection, and supplemental static collection from a consultant.
- Identification Source: Project Request
- Estimated Cost: \$250,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q3 2022



# [Citywide Video Monitoring Cameras]

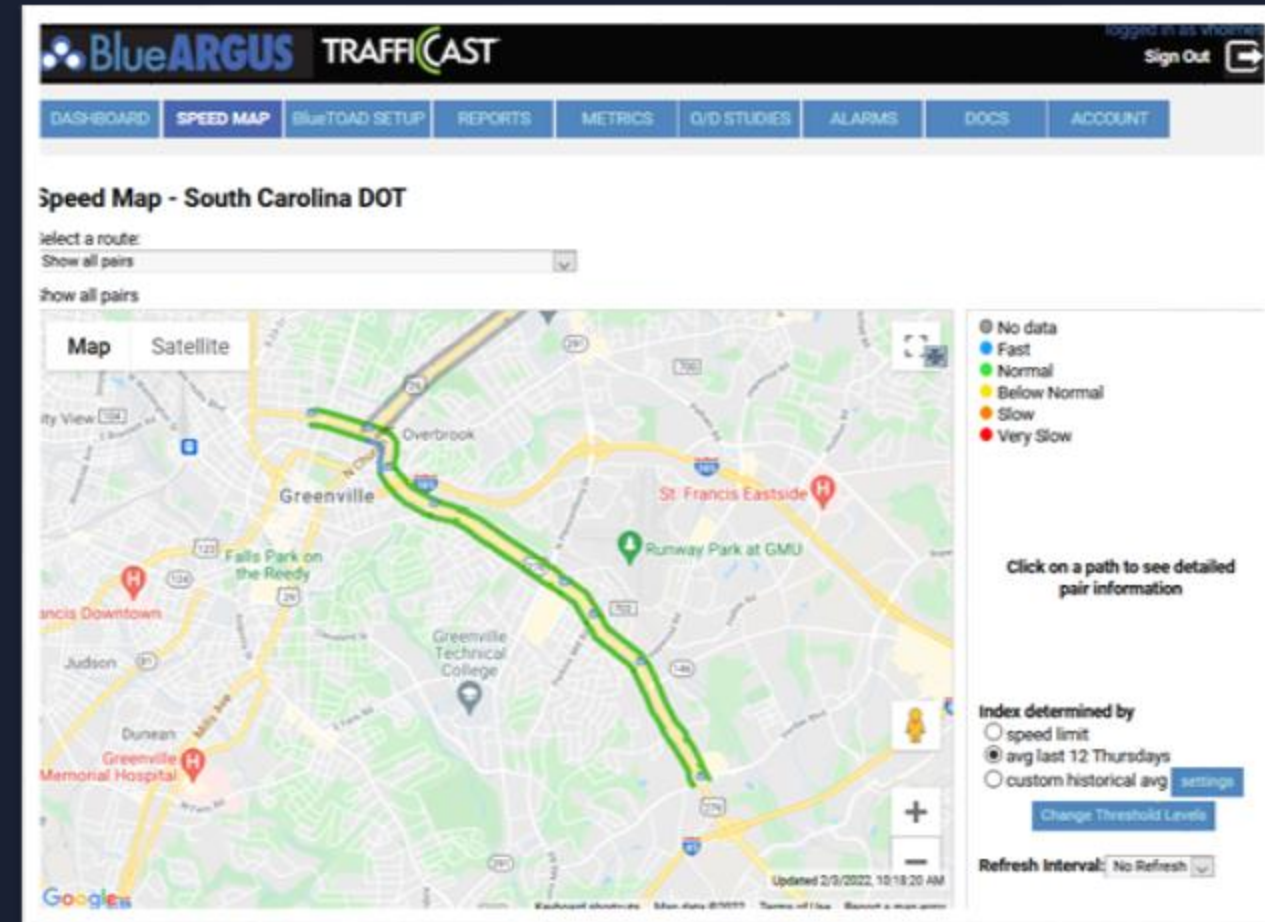
- Project Description: Install video cameras at about 20 signalized intersections that are equipped with communications
- Identification Source: Project Request
- Estimated Cost: \$200,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2022





# [Citywide Travel Time Monitoring]

- Project Description: Install 100 BlueToad devices along major corridors to identify areas that would benefit from improved signal operations
- Identification Source: Project Request
- Estimated Cost: \$500,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2022



# [Citywide Signal Detection]

- Project Description: Install video detection cameras at intersections enabled with communications to enhance the City's ability to implement adaptive timings
- Identification Source: Project Request
- Estimated Cost: \$200,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q4 2022



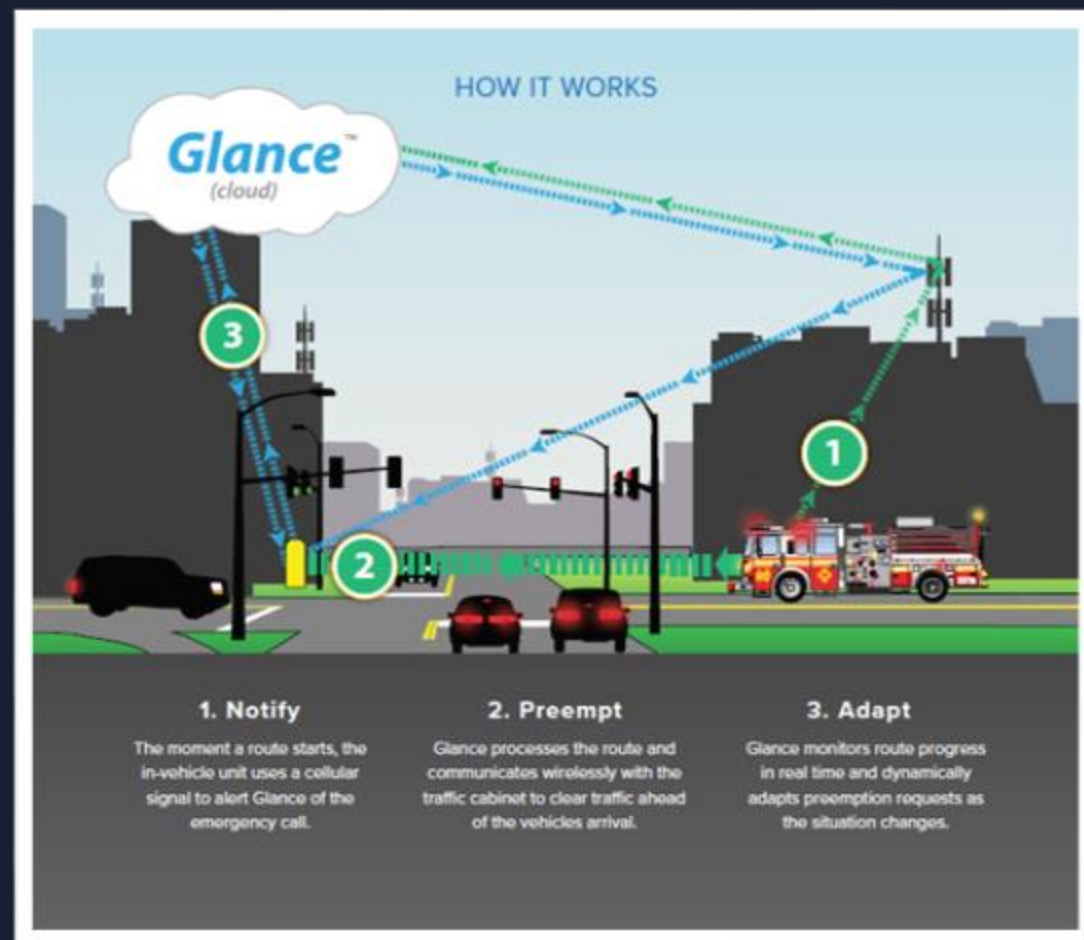
# [ITS Master Plan]

- Project Description: ITS Master Plan to guide implementation of smart infrastructure and the design and construction of a city Traffic Management Center
- Identification Source: Project Request
- Estimated Cost: \$150,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q4 2022



# [Emergency Signal Preemption]

- Project Description: Equip all signal cabinets with emergency preemption units
- Identification Source: Project Request
- Estimated Cost: \$1,200,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q3 2022





# [Uninterruptible Power Supply]

- Project Description: Contract to furnish and install signal cabinets with uninterruptible power supply units
- Identification Source: Project Request
- Estimated Cost: \$1,500,000
- ROW Needed (Y/N)?: No
- Estimated Timeline to Begin Construction: Q2 2022





**Sidewalk Projects**

# [Sidewalk Projects]

- Project Description: Sidewalk project on various City streets.
- Identification Source: Sidewalk Rankings/Project Request
- Estimated Cost: \$8,000,000 (includes \$2m from FY23/FY24 NSTEP)
- ROW Needed (Y/N)?: Yes
- Estimated Timeline to Begin Construction: Q3 2022

| Street                       | Cross Streets  | Total Cost     | Timeline |
|------------------------------|--|----------------|----------|
| LONG HILL STREET             | RICE STREET TO END   | \$448,800.00   | Q3 2022  |
| POTOMAC AVENUE               | PANAMA AVENUE TO PRINCE AVENUE   | \$785,400.00   | Q3 2022  |
| DOE STREET                   | ENDEL STREET TO EXISTING SIDEWALK  | \$93,500.00    | Q3 2022  |
| CHICK SPRINGS RD             | LOTUS COURT TO MOHAWK DRIVE  | \$690,030.00   | Q2 2023  |
| MOHAWK DR                    | CHICK SPRINGS TO WADE HAMPTON  | \$645,150.00   | Q2 2023  |
| GALLIVAN STREET              | MOHAWK DRIVE TO PARKWOOD DRIVE   | \$112,200.00   | Q2 2023  |
| ALGONQUIN TRAIL              | NORTH SIDE BETWEEN 10 AND 18   | \$136,510.00   | Q2 2023  |
| HENDERSON ROAD               | LAURENS ROAD TO ANNACEY PLACE, HIGHCROFT COURT SUBDIVISION TO WEMBLEY ROAD | \$867,680.00   | Q2 2023  |
| WEMBLEY ROAD                 | HENDERSON ROAD TO SHELBURNE ROAD   | \$570,350.00   | Q3 2023  |
| KEITH DR                     | PERRIN STREET TO LOWNDES HILL, WOODLARK TO PLEASANTBURG                    | \$1,368,840.00 | Q3 2023  |
| LOWNDES HILL RD/OVERBROOK RD | E NORTH STREET TO KEITH DRIVE  | \$1,858,780.00 | Q3 2023  |



# **Parks and Community Center Projects**



# [ Proposed Projects]

|                        |                          |              |      |   |
|------------------------|--------------------------|--------------|------|---|
| Cleveland              | Court Reconstruction     | \$1,300,000  | 3, 4 | reconstruct courts and add pickleball       |
|                        | Playground Replacement   | \$1,500,000  | 3,4  | replace playground at Zoo shelters          |
|                        | Parking Lot Renovation   | \$500,000    |      | reconstruct parking lot                     |
| David Hellams          |                          |              | 3    |   |
|                        | Court Reconstruction     | \$90,000     |      | resurface court                             |
| Gower Park             |                          |              | 4    |   |
|                        | Court Reconstruction     | \$700,000    |      | reconstruct courts and add pickleball       |
|                        | Parking Lot Renovation   | \$250,000    |      | reconstruct parking lot (LWCF grant)        |
| Holmes Park            |                          |              | 1    |   |
|                        | Court Reconstruction     | \$85,000     |      |   |
|                        | Parking Lot Renovation   | \$250,000    |      | reconstruct parking lot                     |
|                        | Park Shelter Replacement | \$25,000     |      | replace with aluminum shelter               |
| McPherson Park         |                          |              | 2    |   |
|                        | Court Reconstruction     | \$100,000    |      | tennis only                                 |
| Newtown Park           |                          |              | 2    |   |
|                        | Court Reconstruction     | \$25,000     |      | basketball court                            |
| Nicholtown             | Center Renovation        | \$1,800,000  |      | reconstruction on current footprint         |
|                        | Add Walking Track        | \$15,000     |      | to be installed behind basketball court     |
|                        | Replace Park Shelter     | \$25,000     |      | replace with aluminum shelter               |
| North Main Rotary Park |                          |              | 1    |   |
|                        | Field Improvements       | \$150,000    |      | renovate field, improve stormwater drainage |
| Pinckney Fludd Park    |                          |              | 2    |   |
|                        | Court Reconstruction     | \$25,000     |      | basketball court                            |
| West Greenville CC     |                          |              | 2    |   |
|                        | Center Renovation        | \$10,000,000 |      | reconstruction on current footprint         |

# [ Cleveland Park Improvements ]

- Project Description: rehabilitate the courts to add dedicated pickleball and improve efficiency, stub out for future restroom, replace shelter 29 and 30 playgrounds, new parking
- Estimated Cost: \$2,000,000
- Estimated Timeline to Begin Design: Q3 2022



# [ David Hellams Basketball Court Rehabilitation ]

- Project Description: renovate existing covered basketball court, improve drainage, resurface, new equipment/ hardware
- Estimated Cost: \$90,000
- Estimated Timeline to Begin Construction: Q3 2023





# [ Gower Park Court / Parking Lot Improvements ]

- Project Description: rehabilitate the courts to add dedicated pickleball and improve efficiency of space, new parking lot with landscaping
- Estimated Cost: \$1,500,000
- Estimated Timeline to Begin Construction: Q3 2022
- Suggested Fund: NIB and LWCF Grant (application in progress, due March 1)



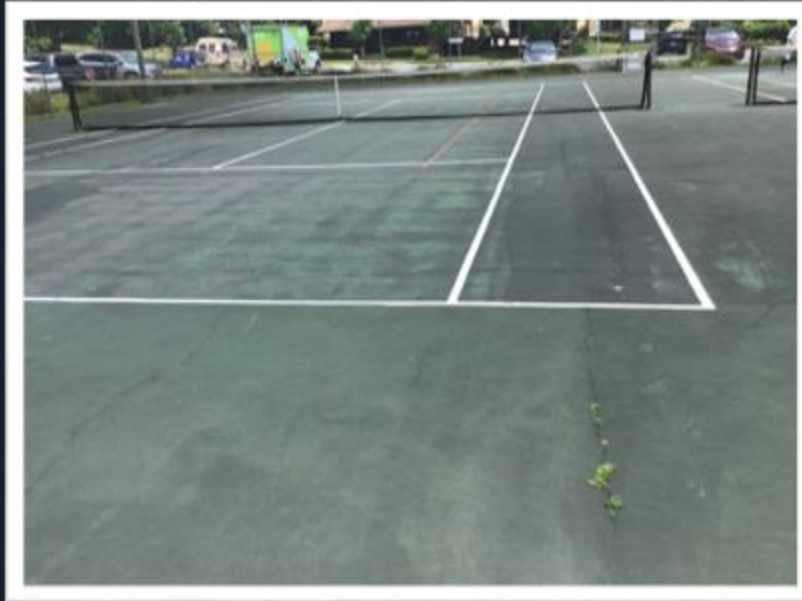
# [ Holmes Park Improvements ]

- Project Description: rehabilitate the tennis courts, new parking lot with landscaping, new park shelter
- Estimated Cost: \$360,000
- Estimated Timeline to Begin Construction: Q2 2022



# [ McPherson Park Improvements ]

- Project Description: rehabilitate the tennis courts, replace tennis court fencing
- Estimated Cost: \$100,000
- Estimated Timeline to Begin Construction: Q2 2022





# [ Newtown Park Improvements ]

- Project Description: rehabilitate the basketball court
- Estimated Cost: \$25,000
- Estimated Timeline to Begin Construction: Q2 2022



# [ Nicholtown Community Center Improvements ]

- Project Description: complete facility renovation, to include new basketball court, updated facility, addition of walking track, new park shelter, improved drainage
- Estimated Cost: \$1.8 million
- Estimated Timeline to Begin Construction: Q2 2023 – following feasibility study





# [ North Main Ballfield Improvements ]

- Project Description: rehabilitate the multi-use ballfield, improve drainage
- Estimated Cost: \$150,000
- Estimated Timeline to Begin Construction: Q1 2023



# [ West Greenville Community Center Improvements ]

- Project Description: renovate facility, improve stormwater drainage, improve interior functionality, open lobby and add windows
- Estimated Cost: \$10,000,000
- Estimated Timeline to Begin Construction: Q1 2023





# [ Pinckney Fludd Court Improvements ]

- Project Description: rehabilitate the basketball court, repave ADA pathways
- Estimated Cost: \$25,000
- Estimated Timeline to Begin Construction: Q1 2023







## Summary

## [ Summary of Projects and Capacity]

- Approximately \$36,000,000 in bonds will be issued in 2 tranches (FY22 and FY24)
- Pre-Authorized Projects:
  - C-Fund Resurfacing Match - \$3 million
  - Public Safety Campus – TMC - \$4 million
  - Cleveland Park and Gower Park Court Improvement Design – \$40 thousand
- Available Capacity - \$28,960,000

| Project Category            | Cost of Recommended Projects |
|-----------------------------|------------------------------|
| Roads, Streets, Bridges     | \$11,050,000                 |
| Traffic Management          | \$4,000,000                  |
| Sidewalks                   | \$6,000,000                  |
| Parks and Community Centers | \$16,815,000                 |
| <b>Total Project List</b>   | <b>\$37,865,000</b>          |

## [ Council Request]

- Project recommendations exceed capacity by about \$9 million
- Seeking input on category allocations first – Roads, Traffic Management, Sidewalks, Parks & Community Centers
- Within the project categories (where applicable) – prioritize projects
- Wherever possible, staff will seek matching funds from State and Federal sources based on project prioritization
  - Staff will prepare a resolution of support for priority projects to increase competitiveness for grant funding



# Discussion